1

1	GTAAGAAAGG	CATTTGCAAG	AGATTGTGGC	TGCTTATTTT	GCCGCCCCT
51	TCCGACGGGC	CCGCCGGGGG	TAGCTGAGAG	GCCCACCAGG	GTTGCGGGAG
101	AAACCGAACC	GGGTGGGGG	AGGGTCCGAC	TTGGAGGGGC	GAGGGGGAAG
151	ACCCACGGCC	GACGCGGCCA	CCAGGTCGAG	GCGGAGGGTA	GGGACAGCCC
201	GGCTAGGGTC	AGGCGTGCGA	GGTCTGTTAC	GAGGCCTCGA	CCCGAGGCGG
251	TGCCATGCGC	GAAGCCCCGG	CGCTGAGTGG	CGAGACGGGG	TCGCGACCTG
301	GCGTGGGAAA	GAAAGGTGGA	GGCGGCCGCC	ACTATGTGTG	GCCCAGAGCC
351	GGCAGGTCCG	GTTGCCTCCC	TGTGCCGGGG	GAGGGACGGC	GCGCGGGGTT
401	CCGGAGCATT	CTGACGGTAC	CACTCGCGAG	AGGCGGGGGT	GCCTGGTCCT
451	TAGATCCAGT	CACTTCGTCG	CGGCTAAAAC	ACGGGTCGGG	GAGAAGAAAC
501	CGGCCGTTCA	GTGTGCTGGT	TTTCTTGACG	GCCAGGACTG	AGCCTAACCC
551	CGAGGAGCGG	CCGCGTGAGG	CACCAGGAGC	CCACCCGGCG	CCGGGCGGGC
601	GGGTCCATTT	TGCCGCACAA	GCCGGGCTAT	TGGCAAACTG	CGGATGGGCA
651	GGTCCACCTT	CCTTCGGGGG	TGAGCGGCCT	GAGGTATGGG	AGGGCGACGC
701	TACTTCGCGA	CGGGGGCGGG	CGGGATGTGG	ATTGTTCCAT	GGAGGGGTGG
751	GAGACRCCGC	CGGGTGGTCG	ARGGAGCGAG	CACATGGTGG	CCTGAGGCGT
801	TCCCCTCCCC	CAGTCTGCTT	CGCTTCTAAG	TGTTGTGCAA	TCTCCCCCTT
851	TGCTAGCTCG	GCTTGGGCTC	ATTGTGCGCG	AGGCCGCCAC	CGCCCGCGGC
901	CTCCCACATC	CGGGCAACGC	GAGGGGGGG	CTTCGGCTGG	AGGGAGTGGG
951	GGAGGGCGCG	GGCGGGATGA	CGTGGGGGGA	AGGGGATGTC	CTACCCTCCG
1001	ATCTGGGAGG	TGAAGGGCGG	GACTTCCAGC	GCGCTGGTGC	TGCGGTGGGA
1051	GGTGCACGCG	CTTGGGCTTT	AAGCGGCTGG	GTCGGGCCCA	CGTGGACCCG
1101	GCGGCAAGCA	CCACCTNTGG	GCACCGTGAG	CGCGGCGGCA	CGCCTGCCGG
1151	CCTGTCTTCA	GAAAGGGTCA	CCCCCTTATG	TCGGGGGTGG	CCTGGCCTGA

1201	GCCGCTGCCT	GCATGGGGCA	AATGCCTCAG	TTTTATAGAA	ACTCCTCCTI
1251	TGGGTATTTT	TTGGGAGCTG	GTGGGAGTTG	GATCTGGGAC	AGCAGGTTGA
1301	TGGCATCATG	CAGGCCACTC	CTGACAGAGC	CCGGCTGTCA	GGATTTCTGA
1351	GTGCTTCGGT	CGGGCAGGGG	מרדים מממממ	тсстттааас	CAACAG

3

1	GTGAGACTGG	AGAAATGGAA	TTCTGTCCTC	CCCCATTACA	ACTTTCAGCO
51	GTATAGAGTT	AGAGTGGCCT	CTTGATTGAT	TTCCCAGATC	ATCTAGAAGO
101	AGCTGGTTTC	CCTAAAGGGA	GGAGGGTTGT	AAGCTCTGAG	GCTTTTGTT
151	RTASGCACCA	SATTCTGTTT	GCTCGGAGAC	TACAGCTCAG	CTCCACCTT
201	TCCATGACTC	AAGCTTTAAT	TTCTTTGCAT	CCCCTAG	

.- .-,

1	GTGAGACCTC	TCAGTCCCAG	ATGCCCATCT	CATATCAGCC	AGGGACAAAG
51	CAACTCCTTG	TTCATCCCAG	CTTGGCTTTT	GATCCGTGCC	CATGCCTGGT
101	TCATGCCTTG	GACACATAGG	TTTCCTTTAA	AGAGGTGGTA	TTGTAGCCAG
151	CTTATATTTG	CATCTACAGC	CATGTTTCTA	GTCCAGCTTG	GTGTGCAATA
201	CTAGATGAGT	TAATAACTGG	TCCTTGTTTC	TGATCTGGTT	CCCATTGTGT
251	AACTGTGTTG	ATTGGGAAGG	TAGTTTGTGA	GCCATGAAAT	GCTTGGTTCA
301	TTGGTTGCTT	ATTGACCTCA	TTAACCTAGG	ACTTGAATAT	CCCAAAGGGT
351	ATGCTCTTTA	CCACATTCAA	CTCCTAATTT	ATTTGTTTAG	

5

1	GTGAGTAATT	CGGTTCTCCA	ATCCCCTGGG	TCACTTTGCT	CTTGTGCAC
51	CTTTCCAGTC	TTTCAGCGTA	AGCCAGAGTC	ATTCCCAAGG	ATGCTGGTTT
101	CTCTCTGGGG	GAAGAGCTGC	TCTGTGATGG	AGCCCATGCG	TGTCATCTGA
151	GCCTCTGGCT	TCCCTGCCAG	TGCAGCCCTG	GCAGTGTCCT	ACTTCCCAGG
201	GCTGTTGTCT	GCCTGGCGGG	AAGGTCCTGG	GCAAAGGATC	AGTCTTTGTA
251	CTCTGAGAGC	AGACTACTTG	GCTCCTCTCT	GTTTTTTATC	AGCGAAGTTG
301	GATATATCTC	TCCCACATTT	CCCTAATCAT	ATGCTATATA	TTGGCTTTTT
351	<b>ጥተተተ</b> ርጥተርጥር	TAG			

6

1 0	TGAGGGCAG	TCTTGCTTGA	ATAGCTAATG	ATTCTTGAAA	AATAGTAAGI
-----	-----------	------------	------------	------------	------------

- 51 GCCAGGGGAA ACCAAATACT GGATTCTTGA GCCTTTTTAT GCATCTGCTT
- 101 CAGTTTTAGG TGTGGCTAGG GAAGGGAGCA GGCCTCAGGA AGGAACCAGC
- 151 ACTCTAAGAC TGGCCTTTTT TTCCACTAG

7

- 1 GTGGGGCCCA GTGCAGGAGG CGGGCCTGGT AGTGAGTTGT TGGGTATAGC
- 51 CCCTGACTGA TTTTTGTCCC CCAACCTCCA G

8

1	GTGAGTAGAG	GGAACTGATA	GCAAAGGCAG	AAGGGAGGAT	CCAAGGTGAT
51	TCCCTCTCCA	AGGGGACATC	AGTGCCTCTC	AGGAAAGTAG	CAGCTTGGAA
101	TAGAATCTGG	CATGCCTAAG	GCCTTTGGGG	AACTGGGATG	CTTATTTCCT
151	CTGCCTTCCT	TGGCTGCCCA	CATGGATGCC	TAAGTGTCTT	CCCTCCGGGA
001	ma ca omonoc	שרכים שרכים בים	שריים א א כא כי	<b>Դ</b>	TCACCTAC

1	CTACGATATC	GCTGTTGATT	TCCTTCATCC	CCTGGCACAC	GTCCAGGCAG
51	TGTCGAATCC	ATCTCTGCTA	CAGGGGAAAA	ACAAATAACA	TTTGAGTCCA
101	GTGGAGACCG	GGAGCAGAAG	TAAAGGGAAG	TGATAACCCC	CAGAGCCCGG
151	AAGCCTCTGG	AGGCTGAGAC	CTCGCCCCCC	TTGCGTGATA	GGGCCTACGG
201	AGCCACATGA	CCAAGGCACT	GTCGCCTCCG	CACGTGTGAG	AGTGCAGGGC
251	CCCAAGATGG	CTGCCAGGCC	TCGAGGCCTG	ACTCTTCTAT	GTCACTTCCC
301	TACCGGCGAG	AAAGGCGGGC	CCTCCAGCCA	ATGAGGCTGC	GGGGCGGGCC
351	TTCACCTTGA	TAGGCACTCG	AGTTATCCAA	TGGTGCCTGC	GGGCCGATGT
401	CTGCGAGCCA	GGATTCCCG			

10

-526	CTACGATATC	GCTGTTGATT	TCCTTCATCC	CCTGGCACAC	GTCCAGGCAG
-476	TGTCGAATCC	ATCTCTGCTA	CAGGGGAAAA	ACAAATAACA	TTTGAGTCCA
-426	GTGGAGACCG	GGAGCAGAAG	TAAAGGGAAG	TGATAACCCC	CAGAG <u>CCCGG</u>
-376	<u>AAGCC</u> TCTGG	AGGCTGAGAC	CTCGCCCCCC	TTGCGTGATA	GGGCCTACGG
	c-etsl		Sp1		
-326	AGCCACATGA	CCAAGGCACT	GTCGCCTCCG	CACGTGTGAG	AGTGCAGGGC
-276	CCCAAGATGG	CTGCCAGGCC	TCGAGGCCTG	ACTCTTCTAT	GTCACTTCCG
					c-ets/Elk-1
-226	<u>TAC</u> CGGCGAG	AAAGGCGGGC	CCTCCAGCCA	ATGAGGCTGC	<u>GGGGCGGG</u> CC
					Sp1
-176	TTCACCTTGA	TAGGCACTCG	AGTTATCCAA	TGGTGCCTGC	GGGCCGGAGC
				Al	P-2
-126	GACTAGGAAC	TAACGTCATG	CCGAGTTGCT	GAGCGCCGGC	_AGGCGGGGCC
		CRE-BP		AP-2	Sp1
70					
- /6	GGGGCGGCCA	AACCAATGCG	ATGGCC <u>GGG</u> G	<u>CGGA</u> GTCGGG	CGCTC <u>TATAA</u>
- /6	GGGGCGGCCA Sp1	AACCAATGCG		<u>CGGA</u> GTCGGG p1	CGCTC <u>TATAA</u>
	Sp1	AACCAATGCG GGCGGGCACT	Sį	p1	
	Sp1		Sį	p1	
-26	Sp1 <u>G</u> TTGTCGATG	GGCGGGCACT	Sį	p1	CATGTCTGCG
-26	Sp1	GGCGGGCACT	Sį	p1	CATGTCTGCG

#### SEQ.I.D.NO:40

-5280 GCGGCCGCAT AATACGACTC ACTATAGGAA TCTAGGAAGG CCTCTCATAG

-5230 CTGAGACGTG AATGATGAGC AGCCAGCCAT GCGCAGACCT GGGAATAGCA -5180 AGTACACAAG ACCCATAGTG AAAAACCATG GCTGAGGAAC AGAGGGCTTG -5130 TGGGGGTGAC CTGTGTAGTT GGCGCAGAGT GAGCAAAGGG AGATGGATAC -5080 AAAATTCGGT CAGAGAGTAG ATCATGTAAG ACATGTACGG TAGGCTGAGG -5030 AGGGGGGATT TTATTGCGTG TATACTGAGA AGCCATTGAG TTTTAAGCAG -4980 GCTGAGAAGT GCCTTCTGTT TTAAACTCCT GTTTCAATGA CAGATTGAAA -4930 GGGGGGCAAG AATGGAAGCA GGAACAGAGC ACAGTAGTCC AGGTGAGAAA -4880 CTTGAACTGG AGTGCTAAAG GAAGAGAGA AGAGTAGTTT TATGTAGGAT -4830 AAATTTTACG AGTAAAACCA GTAGGACTGA CAGGCTCTGT GATACTGAGA -4780 GATACATATT TGTCTCCTGA CCAGGCTCCT GGCATTCAAC TTCTAAAATC -4730 CTTGGAATCT CCAGTGATGT GTGTTTTTGT GTGCTGATGA GTTGATTCAT -4680 GGCTAGCCCC TCTAGGTGGC TTCATGATTA GAGGGTTGGA ACTTTCAGCC -4630 TCACCCCAC CAACTTCCTG GGAGGGGAAT GGGGCCAAAG GTTAAGGCAA -4580 TCACTGAGGA TCAGTGATTT AATCAGTCAT GCCTAGTAGT GAAGCCTCTA -4530 AAAACCGGAA AGGGGCCGGG TTGCGCGGCG CACGCCTGTA CTCCCGGCAC -4480 TTTGGGAGGC TGAGGCAGAT GGATCGCAAG GTCAAGAGAT TGAGACCAGC Alu I repeat -4430 CTGGCCGACC TGGCGAAACC CTGTCTCTAC TAAAAATATG AAAATTAGCT -4380 GGGCGTGGTG CGTGCGCCTG TAGTCCCCGG GAGGCTGAGG CAGGAGAATC -4330 GCTTGAACCC GGGAGGCAGA GGTTGCAGTG AGCCGAGATT GTGCCACTGC -4280 ACTCCACCCT GGGTGACAGA GTGAAACTCT GTCTCAAAAA AGAAAAAAAA -4230 ACCCGAGAGG AGGAGTTTGG AGACATTCTA GATAGCTGAA GGCATGGAGG -4180 CTGCCCACAG GATGGTCTGC CAGGCCTCTT CCCGGTACCT TTCCCTGTGC

-4130 ATCTTTCAT CTGTACTCTT TGTACTACCC TTTGTTAATA AACTGGTAAA
-4080 TGTGTTTCCA TGAGTTCTGT GAGCTGCTCT AACAAATTAA TCAAATTCAA
-4030 GGAGGGGGTC ATGGGAACGC TGATCTAACC AGTTGGTGAG AAACACAGAT
-3980 AAAACAACCT GGGGCTTACG ACTGGCATCA GAATTGGGGG CAGCCTTGTG
-3930 AGACTGAGCC CTAAACCTGT GACACATTAT CTCCAGGTAG ATAGTGTTGG
-3880 AATTGAATTG GGGGATACCC AGCTGTGTCC ACCGCAAAAT TGCTTGCTTG
-3830 GTTGTTGGTG GAGAGAAAGC CCCACAAACA CTTCTTGGTG ACCACAGGTT
-3780 ACAGAAGTAT TTTGTGTTGT GAGAGTATAG TAGGAAAGAA GATTTGTTTT
-3730 TTTGCCGGGC GCGGTGGCTC ACGCCTGTAA TCCCAGCCCT TTGGGAGGCT
-3680 GAGGCGGGCG GATCACCAGG TCAGGAGATC AAGACCATCC TGGCTAACAC
-3630 AGTGAAACCC TGTCTCTACT AAAAATACAA AAAATTAGCC GGGCGAGGTG
Alu I repeat

# 

-2830	AGTAGGTTGC	CCACTGTCAT	AAGCCAGTAA	ATGGAGGAGC	TGTATTTGAA
-2780	TTCTGGCAGG	CTCCAGAATC	CTGGGCCTGG	GTTCTTAGCT	GCTAAGTGCT
-2730	TCTCCCTTTA	AAGTGTGAAA	AGCGCCTGCC	CATCATGGGT	TCTCAAGTGT
-2680	TCGTTCTGAT	GTCTCCTCCA	TTGTCTGACC	TTCCTCCCTT	ACCCCGAAGA
-2630	ACCGAAACAT	GCAGATCCTG	AGCTTGCCCA	CAATCTAGGC	CTTGGGTCTT
-2580	CTGTTCTTTC	ACTTGGTTCC	CTTACCTGTG	TCTCTGTTCC	TCTCTAGAAC
-2530	CTTCATGGCA	AAAGGCAAGA	CTTCTGTTTG	TTGTACCTGA	CCTGTGGCAC
-2480	TATCTCTTTA	GGTGGACATC	TTCAATAAGG	AGCTACTGCT	AATCCCCATC
-2430	CACCTGGAGG	TGCATTGGTC	CCTCATCTCT	GTTGATGTGA	GGCGACGCAC
-2380	CATCACCTAT	TTTGACTCGC	AGCGTACCCT	AAACCGCCGC	TGCCCTAAGG
-2330	TTTGAGGGGG	TAGGAGAGAG	ATGGGCAAAA	TGTGGGGCGG	TGCAGTGGCA
-2280	AGGCATTGCA	GGAAGAAGGG	TGGGCTTTGG	GTCTTTGAGG	GGCGACCTGG
-2230	GCATGGTGTC	TGCCAGCACT	GTACCCACCA	TACTGTGTTC	AATTGAGAAA
-2180	CTTAGGGCAT	CACTTTCTTT	TCCCCCATCC	ACATAGCATA	TTGCCAAGTA
-2130	TCTACAGGCA	GAGGCGGTAA	AGAAAGAC <b>CG</b>	ACTGGATTTC	CACCAGGGCT
-2080	GGAAAGGTTA	CTTCAAAATG	GTGAGTTTCC	TGAGGGAGGG	GTATAGGGTG
-2030	TTGGTGGGGA	CAGTGGTAGA	AGGCAGAAAT	TGAAGTCCTA	CCCCTGGGAG
-1980	TCTCCATGTG	AAGGGCCTGC	TTTCTTTCTC	TTCTCTAGAA	TGTGGCCAGG
-1930	CAGAATAATG	ACAGTGACTG	TGGTGCTTTT	GTGTTGCAGG	TAAGCAGATG
-1880	ATGGGGCCAC	CTCCTCTAGC	TCTGAAGTCA	GTTGGGTTAA	AGGGTCGGGA
-1830	GGCTGTTATG	CATCCCCTCA	TTTGGCTCAT	AGTCAGTTGT	GGAGCAGGAA
-1780	GTAATCTGTT	TTAGAACACC	: AAAACACTGG	CTTCACTGGT	TCTCTTCTGG
-1730	ACTTCTCCAT	CCCACATTGG	GACTGGGTCT	CTAGGTCTTT	TGGCTCTGGC
~1680	CTTCATAGA	CTCCCTGCT2	ACCTCCAACT	CAGTGTATTT	TCTCCATCTA
-1630	AAACATTCT!	A TCAAGTAAGA	ACACTAGCTT	TAGAGTCAGG	CTGTTTTTGA
-1580	ACCCCAGGC	r GTGGGACCCT	GGCTCCCTTT	GGGGATGTTC	TCTGAAGGAI
-153(	GCAGACACA	г стсататса:	ATCTCTACCA	СУССТССТСУ	CACGGGGGG

			17		
-1480	TTCTCATGGC	TTGCTTTGTT	AACACCCAGT	ACTGCAAGCA	TCTGGCCCTG
-1430	TCTCAGCCAT	TCAGCTTCAC	CCAGCAGGAC	ATGCCCAAAC	TTCGTCGGCA
-1380	GATCTACAAG	GAGCTGTGTC	ACTGCAAACT	CACTGTGTGA	GCCTCGTACC
-1330	CCAGACCCCA	AGCCCATAAA	TGGGAAGGGA	GACATGGGAG	TCCCTTCCCA
	Hom	ology to mo	use eIF4A g	ene sequenc	е
-1280	AGAAACTCCA	GTTCCTTTCC	TCTCTTGCCT	CTTCCCACTC	ACTTCCCTTT
-1230	GGTTTTTCAT	ATTTAAATGT	TTCAATTTCG	TGTATTTTT	TTTCTTTGAG
-1180	AGAATACTTG	TNTATTTCTG	ATGTGCAGGG	GATGGCTACA	GAAAAGCCCC
-1130	TTTCTTCCTC	TGTTTGCAGG	GGAGTGTGGC	CCTGTGGCCC	<b>TGGGTGGA</b> GC
-1080	AGTCATCCTC	CCCCTTCCCC	GTGCAGGGAG	CAGGAAWTCA	GNGATGGGGG
-1030	GNGGGGGGCG	GACAATAGGA	TNACAGCCCG	CCAGATATNC	ATATATATAT
-980	ATATATATAT	ATATATATAT	ATATATATAT	ATATATATAT	<b>АТАТАТАТАТ</b>
-930	ATATATATAT	ATATATAAAA	ATGCCACGGT	CCTGCTCTGG	TCAATAAAGG
-880	ATCCTTTGTT	GATACGTAAG	TGGTGGTCTT	CCTTAAGGGG	CTTCAAATTA
-830	GTGGATATGC	TTAGCTCAGA	CCTTCCAGCC	AGTNTCTTGA	GACTAAAGGG
-780	TTCAGCTTTC	CATCCCTGGC	TCAGGCACTG	CCAACACCTT	GTCTTCACCC
-730	AAACAAATCC	CCCAGATGGG	AGCAGAGAGC	AGGAAGGAGG	GAAAGTAGAT
-680	AAGCCTCAAG	: AATAAGGGCA	TCCGAGAGGG	: AAGCGTGGGG	AACTGGACAC
-630	AAGGGACTGG	GGAGGGGACC	AACCAGGATI	CATGATAGTA	CCCCAAAGCC
-580	CTTTACAGTI	TTYTTCCATC	CCTCCACCAI	CCAGCCAGGG	GAATCCTCCC
-530	ATCCCTACGA	TATCGCTGTT	GATTTCCTTC	ATCCCCTGGC	ACACGTCCAG
-480	GCAGTGTCGA	ATCCATCTCT	GCTACAGGGG	AAAAACAAAT	AACATTTGAG
-430	TCCAGTGGAG	ACCGGGAGCA	GAAGTAAAGG	GAAGTGATAA	CCCCCAGAGC
-380	CCGGAAGCCT	CTGGAGGCTG	AGACCTCGCC	CCCCTTGCGT	GATAGGGCCT
-330	ACGGAGCCAC	ATGACCAAGO	CACTGTCGCC	TCCGCACGTG	TGAGAGTGCA
-280	GGCCCCAAC	ATGGCTGCCA	GGCCTCGAGG	CCTGACTCTT	CTATGTCACT

-230 TCCGTACCGG CGAGAAAGGC GGGCCCTCCA GCCAATGAGG CTGCGGGGCG

#### Homology to mouse eIF4A gene sequence

- -180 GGCCTTCACC TTGATAGGCA CTCGAGTTAT CCAATGGTGC CTGCGGGCCG
- ~130 GAGCGACTAG GAACTAACGT CATGCCGAGT TGCTGAGCGC CGGCAGGCGG
- -80 GGCCGGGCG GCCAAACCAA TGCGATGGCC GGGGCGGAGT CGGGCGCTCT
- -30 ATAAGTTGTC GATGGGCGGG CACTCCGCCC TAGTTTCTAA GGATCATGTC
- +20 TGCGAGCCAG GATTCCCG